



## ■ NOTE

We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

## ■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### 8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

### 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## CAUTIONS

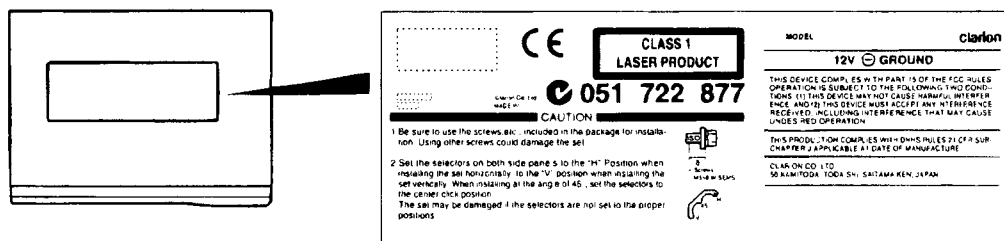
Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.  
(for U.S.A. model)

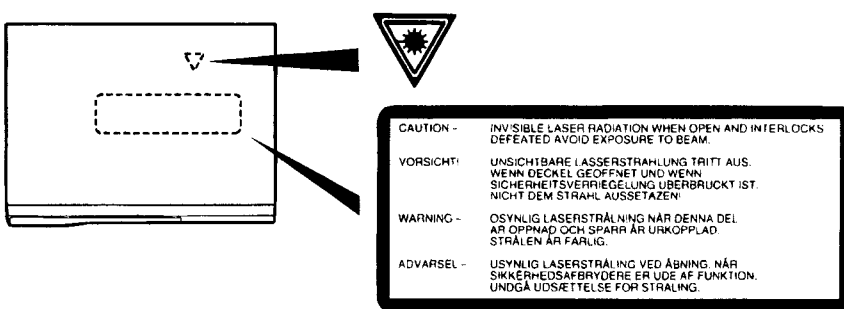
This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not to open the enclosure.

(for European model)

Bottom View of CD Changer Unit (U.S.A. / European model)

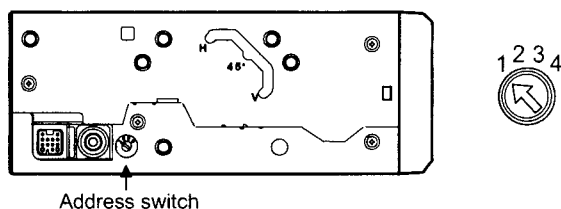


Top View of CD Changer Unit (European model)



## HOW TO CHANGE THE ADDRESS SWITCH

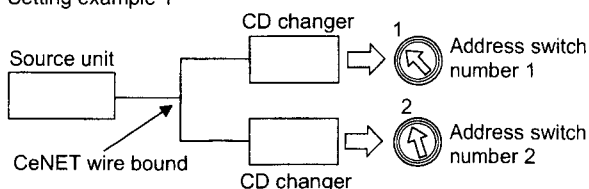
When connecting an CD changer and MD changer by CeNET, no more than 2 units can be connected. When both of them are CD, the address switch needs to be reset so that the address switch number is not the same for each.



1. Rotate and change the switch using a fine-tipped screwdriver.
2. Rotate the switch until it clicks into position.

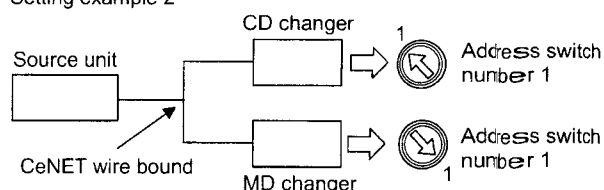
Example of address switch setting

Setting example 1



Be sure that the CD changer numbers are not the same.

Setting example 2



Important

- The unit may not operate when both CD changers are set to the same address switch number.
- Never change the address switch during operation. Doing so can cause malfunction or breakdown. Do not change the address switch forcibly, because this may also cause malfunction.
- Do not use address switch numbers "3" or "4".

# EXPLANATION OF IC

TC9462 051-6342-00 Digital servo for CD

## 1. Outward Form : 100 pins QFP

## 2. Function : Sync. separation, EFM, Error correction

## 3. Terminal Description

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| pin 1 : TEST0   | : IN : Not in use.                                               |
| pin 2 : HSO     | : O : Playback mode flag output. Ref. Table 1.                   |
| pin 3 : UHSO    | : O : Playback mode flag output. Ref. Table 1.                   |
| pin 4 : EMPH    | : O : Emphasis flag output of Sub cord Q data. "H"= emphasis ON. |
| pin 5 : LR CK   | : O : Channel clock output. (44.1kHz)                            |
| pin 6 : VSS     | : - : Ground.                                                    |
| pin 7 : B CK    | : O : Bit clock output. (1.4122MHz)                              |
| pin 8 : A OUT   | : O : Audio data output.                                         |
| pin 9 : D OUT   | : O : Digital output.                                            |
| pin 10 : MBOV   | : O : Buffer memory over signal output.                          |
| pin 11 : IPF    | : O : Compensation flag output.                                  |
| pin 12 : SBOK   | : O : CRCC judgement output of Sub Q data. "H"=OK.               |
| pin 13 : CLOCK  | : I/O : Clock output/input to read Sub cord P to W.              |
| pin 14 : VDD    | : - : Positive supply voltage terminal.                          |
| pin 15 : VSS    | : - : Ground.                                                    |
| pin 16 : DATA   | : O : Sub cord P to W data output.                               |
| pin 17 : SF SY  | : O : Frame synchronize signal output.                           |
| pin 18 : SB SY  | : O : Sub cord block synchronize signal output.                  |
| pin 19 : SP CK  | : O : Clock signal output to read processor status. (176.4kHz)   |
| pin 20 : SP DA  | : O : Processor status signal output.                            |
| pin 21 : COFS   | : O : Correction frame clock output. (7.35kHz)                   |
| pin 22 : MONIT  | : O : Not in use.                                                |
| pin 23 : VDD    | : - : Positive supply voltage terminal.                          |
| pin 24 : TESIO0 | : IN : Not in use.                                               |
| pin 25 : P2Vref | : - : (Reference voltage)X2 terminal for PLL.                    |
| pin 26 : HSSW   | : O : pin26=Vref : X2-speed or X4-speed.                         |
| pin 27 : Z DET  | : O : 0 flag output of 1 bit DAC.                                |
| pin 28 : PDO    | : O : Error signal output. (EFM - PLCK)                          |
| pin 29 : TMAX S | : O : TMAX detect signal output.                                 |
| pin 30 : TMAX   | : O : TMAX detect signal output.                                 |
| pin 31 : LPF N  | : IN : Inverted input of amplifier for LPF.                      |
| pin 32 : LPF O  | : O : Output of amplifier for LPF.                               |
| pin 33 : PVref  | : - : Reference voltage terminal for PLL.                        |
| pin 34 : VCOref | : - : Reference voltage terminal for VCO.                        |
| pin 35 : VCO F  | : O : Output of filter for VCO.                                  |
| pin 36 : AVSS   | : - : Analog ground.                                             |
| pin 37 : SLCO   | : O : Output of DAC for data slice level.                        |
| pin 38 : RF IN  | : IN : RF signal input.                                          |
| pin 39 : AVDD   | : - : Positive voltage supply for analog.                        |
| pin 40 : RFCT   | : IN : Center level input of RFRP signal.                        |
| pin 41 : RFZI   | : IN : RFRP 0 cross.                                             |
| pin 42 : RFRP   | : IN : RF ripple signal input.                                   |
| pin 43 : FEI    | : IN : Focus error signal input.                                 |
| pin 44 : SBAD   | : IN : Sub beam addition signal input.                           |
| pin 45 : TSIN   | : IN : Not in use.                                               |
| pin 46 : TEI    | : IN : Tracking error input.                                     |
| pin 47 : TEZI   | : IN : Tracking error , 0 cross input.                           |
| pin 48 : FO O   | : O : Focusing equalizer output.                                 |
| pin 49 : TR O   | : O : Tracking equalizer output.                                 |
| pin 50 : Vref   | : - : Reference voltage for analog.                              |
| pin 51 : RFGC   | : O : RF gain control signal output.                             |
| pin 52 : TEBG   | : O : Tracking balance control signal output.                    |
| pin 53 : FM O   | : O : Field equalizer output.                                    |
| pin 54 : FVO    | : O : Field error or Field search EQ output.                     |
| pin 55 : DMO    | : O : Disc equalizer output.                                     |
| pin 56 : 2Vref  | : - : 2 X Vref for analog.                                       |
| pin 57 : SEL    | : O : Laser ON and UHS="H" : output "H"                          |
| pin 58 : FLG A  | : O : Monitor signal output.                                     |
| pin 59 : FLG B  | : O : Monitor signal output.                                     |
| pin 60 : FLG C  | : O : Monitor signal output.                                     |
| pin 61 : FLG D  | : O : Monitor signal output.                                     |
| pin 62 : VDD    | : - : Positive supply voltage.                                   |
| pin 63 : VSS    | : - : Ground.                                                    |
| pin 64 : IO 0   | : I/O : I/O port.                                                |
| pin 65 : IO 1   | : I/O : I/O port.                                                |
| pin 66 : IO 2   | : I/O : I/O port.                                                |
| pin 67 : IO 3   | : I/O : I/O port.                                                |
| pin 68 : DMOUT  | : IN : Not in use.                                               |
| pin 69 : CKSE   | : IN : Not in use.                                               |
| pin 70 : DACT   | : IN : Not in use.                                               |

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| pin 71 : TESIN  | : IN : Not in use.                                         |
| pin 72 : TESIO1 | : IN : Not in use.                                         |
| pin 73 : VSS    | : - : Ground.                                              |
| pin 74 : PX I   | : IN : DSP oscillator input.                               |
| pin 75 : PX O   | : O : DSP oscillator output.                               |
| pin 76 : VDD    | : - : Positive supply voltage.                             |
| pin 77 : X VSS  | : - : Ground for system oscillator clock.                  |
| pin 78 : X I    | : IN : System clock oscillator input.                      |
| pin 79 : X O    | : O : System clock oscillator output.                      |
| pin 80 : X VDD  | : - : Positive supply voltage for system clock oscillator. |
| pin 81 : D VSR  | : - : Positive supply voltage for right channel DAC.       |
| pin 82 : R O    | : O : Right channel data non-inverted output.              |
| pin 83 : D VDD  | : - : Positive supply voltage for DAC.                     |
| pin 84 : D Vref | : - : Reference voltage.                                   |
| pin 85 : L O    | : O : Left channel data non-inverted output.               |
| pin 86 : D VS L | : - : Positive supply voltage for left channel DAC.        |
| pin 87 : TEST 1 | : IN : Not in use.                                         |
| pin 88 : TEST 2 | : IN : Not in use.                                         |
| pin 89 : TEST 3 | : IN : Not in use.                                         |
| pin 90 : BUS 0  | : I/O : Data bus to micro computer.                        |
| pin 91 : BUS 1  | : I/O : Data bus to micro computer.                        |
| pin 92 : BUS 2  | : I/O : Data bus to micro computer.                        |
| pin 93 : BUS 3  | : I/O : Data bus to micro computer.                        |
| pin 94 : VDD    | : - : Positive supply voltage.                             |
| pin 95 : VSS    | : - : Ground.                                              |
| pin 96 : BUS CK | : IN : Clock input for data bus.                           |
| pin 97 : CCE    | : IN : Chip enable signal input. Negative logic.           |
| pin 98 : TEST 4 | : IN : Not in use.                                         |
| pin 99 : TS MOD | : IN : Not in use.                                         |
| pin100 : RST    | : IN : Reset signal input. Negative logic.                 |

Table 1. Playback speed flag.

| Play back speed  | UHSO(pin3) | HSO(pir2) |
|------------------|------------|-----------|
| Normal speed X 1 | H          | H         |
| Normal speed X 2 | H          | L         |
| Normal speed X 4 | L          | H         |
| -----            | L          | L         |

M30620M8-370FP 052-5031-02 6 CD Auto Changer Controller ( Ce-Net / IE-Bus )

## 1. Outward Form : 100 pins QFP

## 2. Terminal Description

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| pin 1 : N.C.        | : IN : Not in use.                                                               |
| pin 2 : N.C.        | : IN : Not in use.                                                               |
| pin 3 : N.C.        | : IN : Not in use.                                                               |
| pin 4 : N.C.        | : IN : Not in use.                                                               |
| pin 5 : S BSY       | : IN : Sub cord block synchronize signal input from TC9462F.                     |
| pin 6 : N.C.        | : IN : Not in use.                                                               |
| pin 7 : N.C.        | : IN : Not in use.                                                               |
| pin 8 : BYTE        | : IN : Connect to the ground.                                                    |
| pin 9 : CNVSS       | : IN : Connect to the ground.                                                    |
| pin 10 : RESET OUT_ | : O : Reset signal Output to TC9462F. legat - tive logic.                        |
| pin 11 : N.C.       | : IN : Not in use.                                                               |
| pin 12 : RESET_     | : IN : Reset signal input. Negative logic.                                       |
| pin 13 : X OUT      | : O : Ceramic resonator connection.                                              |
| pin 14 : VSS        | : - : Ground.                                                                    |
| pin 15 : X IN       | : IN : Ceramic resonator connection.                                             |
| pin 16 : VDD        | : - : Positive supply voltage.                                                   |
| pin 17 : NMI        | : IN : Not in use. Connect to +5V.                                               |
| pin 18 : B/U DET    | : IN : Backup detect input.                                                      |
| pin 19 : SYS ACC    | : IN : System ACC detect signal input.                                           |
| pin 20 : EJECT_     | : IN : Eject key signal input. Negative logic.                                   |
| pin 21 : CONNECT    | : IN : IE-Bus Input.                                                             |
| pin 22 : CCE_       | : O : Chip enable signal output for Serial data communication line with TC9462F. |
| pin 23 : BU CK_     | : O : Clock signal output for Serial data communication line with TC9462F.       |
| pin 24 : N.C.       | : IN : Not in use.                                                               |
| pin 25 : N.C.       | : IN : Not in use.                                                               |
| pin 26 : N.C.       | : IN : Not in use.                                                               |

pin 27 : N.C. : IN : Not in use.  
pin 28 : N.C. : IN : Not in use.  
pin 29 : TX : O : IE Bus transmission.  
pin 30 : RX : IN : IE Bus reception.  
pin 31 : TXD : O : Not in use.  
pin 32 : RXD : O : Not in use.  
pin 33 : SCLK : O : Not in use.  
pin 34 : BUSY : O : Not in use.  
pin 35 : BUS 3 : I/O : Data Bus. Connect to TC9462F.  
pin 36 : BUS 2 : I/O : Data Bus. Connect to TC9462F.  
pin 37 : BUS 1 : I/O : Data Bus. Connect to TC9462F.  
pin 38 : BUS 0 : I/O : Data Bus. Connect to TC9462F.  
pin 39 : N.C. : IN : Not in use.  
pin 40 : N.C. : IN : Not in use.  
pin 41 : EPM : IN : Not in use.  
pin 42 : ADRS 1 : IN : CD auto changer address input.  
Ref. Table 1.  
pin 43 : ADRS 2 : IN : CD auto changer address input.  
Ref. Table 1.  
pin 44 : ADRS 3 : IN : CD auto changer address input.  
Ref. Table 1.  
pin 45 : N.C. : IN : Not in use.  
pin 46 : CE : IN : Not in use.  
pin 47 : A MUTE : O : Analog mute signal output.  
pin 48 : A SW\_ : O : "L"= Audio signal acceptable.  
pin 49 : P ON 1 : O : "H"= Turn ON the power supply circuit for  
Audio circuit.  
pin 50 : P ON 2 : O : "H"= Turn ON the power supply circuit for  
servo circuit.  
pin 51 : D STOP : O : "H"= Digital out acceptable.  
pin 52 : N.C. : IN : Not in use.  
pin 53 : N.C. : IN : Not in use.  
pin 54 : N.C. : IN : Not in use.  
pin 55 : LD CW : O : Load Unload Motor control signal output.  
Ref. Table 2.  
pin 56 : LD CCW : O : Load Unload Motor control signal output.  
Ref. Table 2.  
pin 57 : UD CCW : O : Up Down Motor control signal output.  
Ref. Table 3.  
pin 58 : UD CW : O : Up Down Motor control signal output.  
Ref. Table 3.  
pin 59 : LOD TR1\_ : O : Photo transistor signal input.  
"H"= Disk presents.  
"L"= Holder is stored.  
pin 60 : LOD TR2\_ : O : Photo transistor signal input.  
"H"=12cm Disk.  
"L"= Holder is stored.  
pin 61 : DNOTR\_ : O : Disc number detect pulse input.  
pin 62 : VCC : - : Positive supply voltage.  
pin 63 : N.C. : IN : Not in use.  
pin 64 : VSS : - : Ground.  
pin 65 : N.C. : IN : Not in use.  
pin 66 : T CLK : O : Not in use.  
pin 67 : T DATA : O : Not in use.  
pin 68 : TCLR\_ : O : Not in use.  
pin 69 : N.C. : IN : Not in use.  
pin 70 : N.C. : IN : Not in use.  
pin 71 : N.C. : IN : Not in use.  
pin 72 : N.C. : IN : Not in use.  
pin 73 : N.C. : IN : Not in use.  
pin 74 : N.C. : IN : Not in use.  
pin 75 : MG SW\_ : IN : "L"= Magazine is inserted.  
pin 76 : N.C. : IN : Not in use.  
pin 77 : N.C. : IN : Not in use.  
pin 78 : N.C. : IN : Not in use.  
pin 79 : N.C. : IN : Not in use.  
pin 80 : POS SW : O : Datum point signal input to detect the  
Disc number.  
pin 81 : HOLDER IN : IN : "L"= Holder is inserted in the Magazine.  
pin 82 : HOLDER OUT : O : "L"= Holder is out of the Magazine.  
pin 83 : CLAMP OFF\_ : IN : Clamp OFF signal input. Negative logic.  
pin 84 : CLAMP ON\_ : IN : Clamp ON signal input. Negative logic.  
pin 85 : N.C. : IN : Not in use.  
pin 86 : N.C. : IN : Not in use.  
pin 87 : N.C. : IN : Not in use.  
pin 88 : N.C. : IN : Not in use.  
pin 89 : N.C. : IN : Not in use.  
pin 90 : N.C. : IN : Not in use.  
pin 91 : N.C. : IN : Not in use.  
pin 92 : N.C. : IN : Not in use.  
pin 93 : TEST 4 : IN : Not in use.  
pin 94 : TEST 3 : IN : Not in use.  
pin 95 : TEST 2 : IN : Not in use.  
pin 96 : AVSS : - : Ground for A/D converter.  
pin 97 : TEST 1 : IN : Not in use.

pin 98 : A VREF 1 : - : Reference voltage for A/D converter.  
pin 99 : A VCC : - : Positive supply voltage for Analog circuit.  
pin100 : N.C. : IN : Not in use.

Table 1. CD auto changer address

| ADDRESS | ADRS 1<br>(pin42) | ADRS 2<br>(pin43) | ADRS 3<br>(pin44) |
|---------|-------------------|-------------------|-------------------|
| 1       | L                 | H                 | H                 |
| 2       | H                 | L                 | H                 |
| 3       | H                 | H                 | L                 |
| 4       | H                 | H                 | H                 |

Table 2. Loading motor control signal output

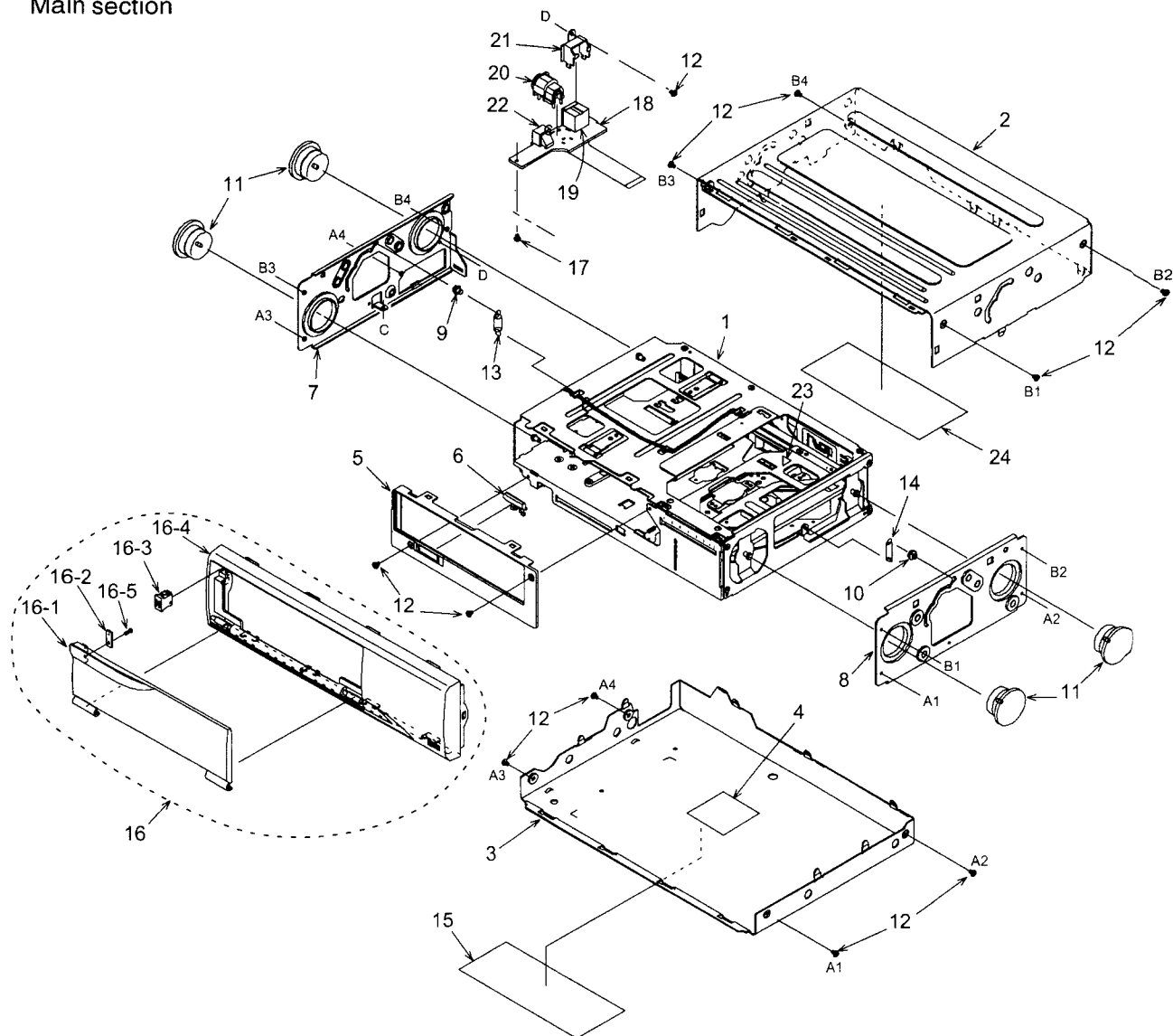
|               | Load | Unload | Brake | Stop |
|---------------|------|--------|-------|------|
| LDCW (pin55)  | L    | H      | H     | L    |
| LDCCW (pin56) | H    | L      | H     | L    |

Table 3. Up down motor control signal output

|               | Up | Down | Brake | Stop |
|---------------|----|------|-------|------|
| UDCW (pin58)  | H  | L    | H     | L    |
| UDCCW (pin57) | L  | H    | H     | L    |

# EXPLODED VIEW • PARTS LIST

Main section

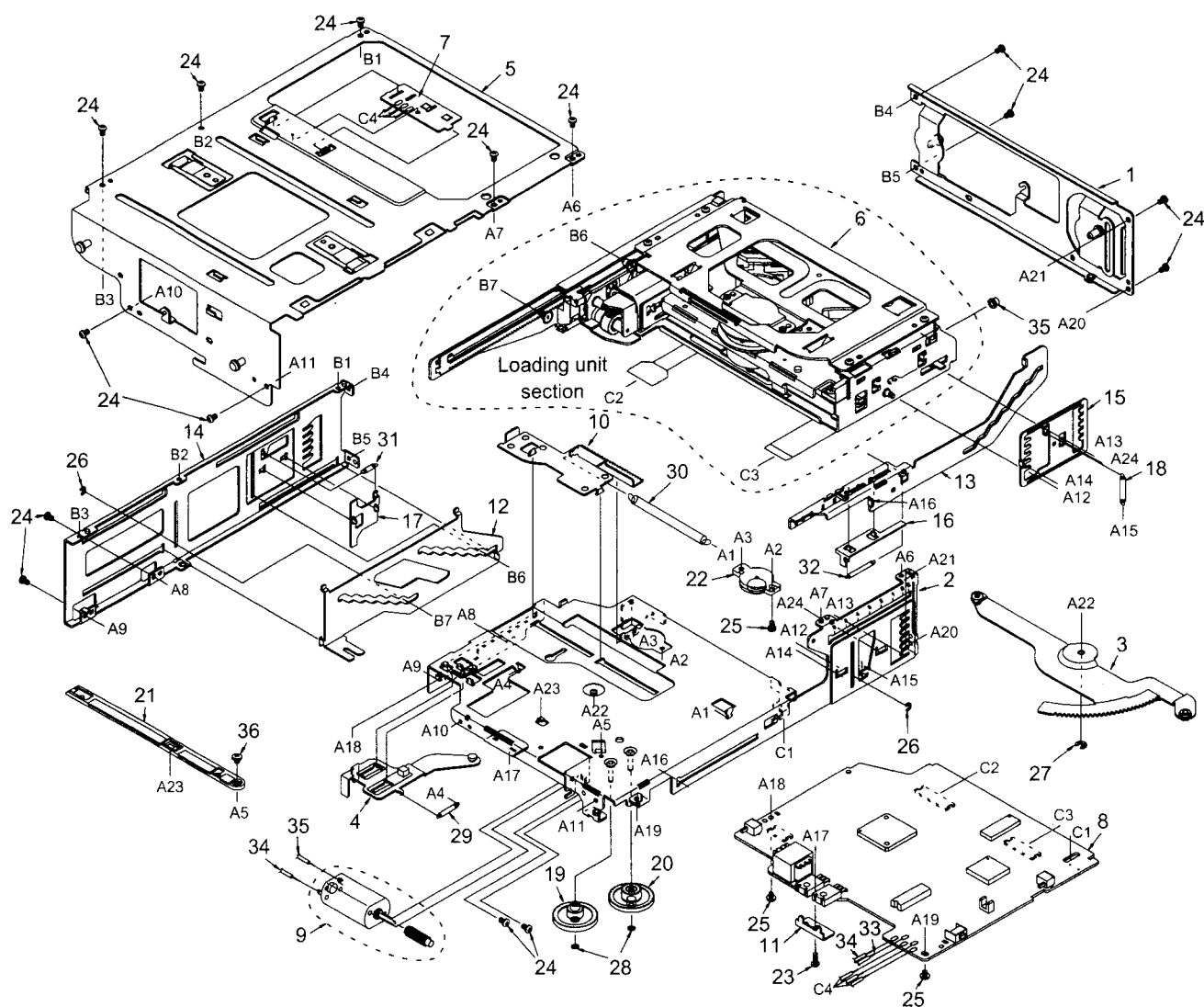


| NO. | PART NO.                                  | DESCRIPTION                                                                            | Q'TY |
|-----|-------------------------------------------|----------------------------------------------------------------------------------------|------|
| 1   | -----                                     | CD CHANGER MODULE                                                                      | 1    |
| 2   | 310-1620-12                               | UPPER CASE                                                                             | 1    |
| 3   | 311-1702-16                               | LOWER CASE                                                                             | 1    |
| 4   | 347-5476-00                               | INSULATOR                                                                              | 1    |
| 5   | 371-3852-02                               | TRIM PLATE                                                                             | 1    |
| 6   | 382-4518-00                               | EJECT BUTTON                                                                           | 1    |
| 7   | 620-0775-00                               | DAMPER PLATE C                                                                         | 1    |
| 8   | 620-0727-01                               | DAMPER PLATE R                                                                         | 1    |
| 9   | 622-1332-01                               | FL-PIN                                                                                 | 1    |
| 10  | 622-1344-01                               | FL-PIN SR                                                                              | 1    |
| 11  | 629-0066-00                               | DAMPER ST6                                                                             | 4    |
| 12  | 716-1716-00                               | SCREW (M2×3)                                                                           | 11   |
| 13  | 750-3242-00                               | FL SPRING                                                                              | 1    |
| 14  | 750-3243-00                               | FL SPRING SR                                                                           | 1    |
| 15  | 286-9224-00<br>286-9225-00<br>286-9226-00 | SET PLATE (PE-2304B)<br>SET PLATE (PE-2300B)<br>SET PLATE (PE-2300E)                   | 1    |
| 16  | 940-7804-22<br>940-7804-23<br>940-7804-24 | ESCUTCHEON ASSY (PE-2300B)<br>ESCUTCHEON ASSY (PE-2300E)<br>ESCUTCHEON ASSY (PE-2304B) | 1    |

| NO.  | PART NO.                   | DESCRIPTION                                                         | Q'TY |
|------|----------------------------|---------------------------------------------------------------------|------|
| 16-1 | 320-0538-17<br>320-0538-18 | DUSTPROOF COVER (PE-2300B)<br>DUSTPROOF COVER (PE-2300E / PE-2304B) | 1    |
| 16-2 | 331-2046-00                | MAG-HOLDER                                                          | 1    |
| 16-3 | 335-5473-00                | MAGNET HOLDER                                                       | 1    |
| 16-4 | 370-5673-09<br>370-5673-10 | ESCUTCHEON (PE-2300B / PE-2300E)<br>ESCUTCHEON (PE-2304B)           | 1    |
| 16-5 | 716-0872-00                | PAD SCREW                                                           | 1    |
| 17   | 716-1727-00                | MAIN-PWB-SCREW                                                      | 1    |
| 18   | 039-1100-00                | CONNECTOR PWB (WITHOUT COMPONENT)                                   | 1    |
| 19   | 074-1194-00                | OUTLET SOCKET                                                       | 1    |
| 20   | 075-0305-00                | JACK                                                                | 1    |
| 21   | 620-0776-00                | CE-NET HOLDER                                                       | 1    |
| 22   | 013-8101-00                | ADDRESS SWITCH                                                      | 1    |
| 23   | 285-1426-00                | GUIDE LABEL (LASER) (PE-2300E ONLY)                                 | 1    |
| 24   | 285-1691-00                | GUIDE LABEL (CAUTION) (PE-2300E ONLY)                               | 1    |

CDC655Tz  
RDC655Tz

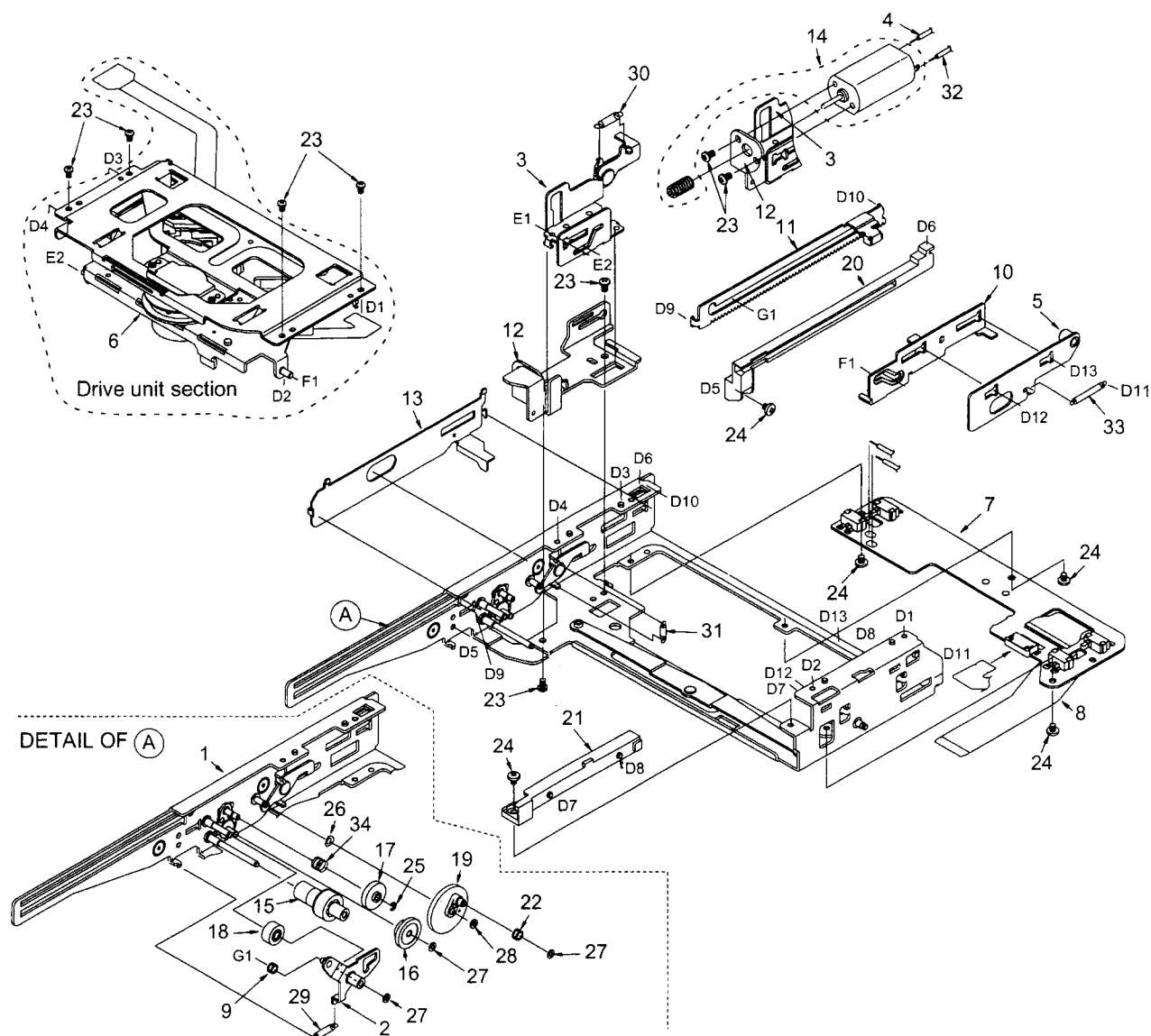
# CD mechanism module section



| NO. | PART NO.    | DESCRIPTION                  | Q'TY |
|-----|-------------|------------------------------|------|
| 1   | 966-0455-01 | REAR PANEL ASSY              | 1    |
| 2   | 966-0460-02 | V-CHASSIS ASSY               | 1    |
| 3   | 966-0461-00 | UD-GEAR-P ASSY               | 1    |
| 4   | 966-0462-05 | MG-LO-P ASSY-S               | 1    |
| 5   | 966-0463-03 | UP-PLATE-ASSY-S              | 1    |
| 6   | -----       | LOADING UNIT                 | 1    |
| 7   | 039-1194-00 | LOADING UNIT PWB (B)         | 1    |
| 8   | 039-1420-00 | MAIN PWB (WITHOUT COMPONENT) | 1    |
| 9   | SMA-155-100 | MOTOR ASSY                   | 1    |
| 10  | 620-0705-01 | MG-EJ-PLATE                  | 1    |
| 11  | 620-0707-00 | HEAT SINK                    | 1    |
| 12  | 620-0710-00 | SLIDE PLATE-L-S              | 1    |
| 13  | 620-0711-02 | SLIDE PLATE-R-S              | 1    |
| 14  | 620-0712-00 | SIDE PANEL-F                 | 1    |
| 15  | 620-0824-00 | GAP PLATE                    | 1    |
| 16  | 620-0733-00 | PO-SW-PLATE                  | 1    |
| 17  | 620-0734-00 | HOLD PLATE-L                 | 1    |
| 18  | 750-3249-00 | GAP SPRING-R                 | 1    |

| NO. | PART NO.    | DESCRIPTION          | Q'TY |
|-----|-------------|----------------------|------|
| 19  | 621-0377-00 | V-HELICAL GEAR       | 1    |
| 20  | 621-0378-00 | V-GEAR A             | 1    |
| 21  | 621-0380-01 | MAGAZINE RAIL        | 1    |
| 22  | 629-0061-00 | GEAR DAMPER          | 1    |
| 23  | 714-2006-81 | MACHINE SCREW (M2×6) | 1    |
| 24  | 716-1468-00 | SCREW (M2×2)         | 15   |
| 25  | 716-1716-00 | SCREW (M2×3)         | 3    |
| 26  | 743-1500-20 | E-RING               | 2    |
| 27  | 743-2000-20 | E-RING               | 1    |
| 28  | 746-0761-00 | WASHER (φ 2.0)       | 2    |
| 29  | 750-3238-00 | MG L SPRING S        | 1    |
| 30  | 750-3239-00 | MG EJ SPRING S       | 1    |
| 31  | 750-3244-00 | HOLD SPRING          | 1    |
| 32  | 750-3247-00 | PO-SW-SPRING         | 1    |
| 33  | 800-4910-60 | WIRE (BLK)           | 1    |
| 34  | 802-4910-60 | WIRE (RED)           | 1    |
| 35  | 610-0367-00 | PUSH P ROLLER        | 1    |
| 36  | 716-1799-00 | SCREW                | 1    |

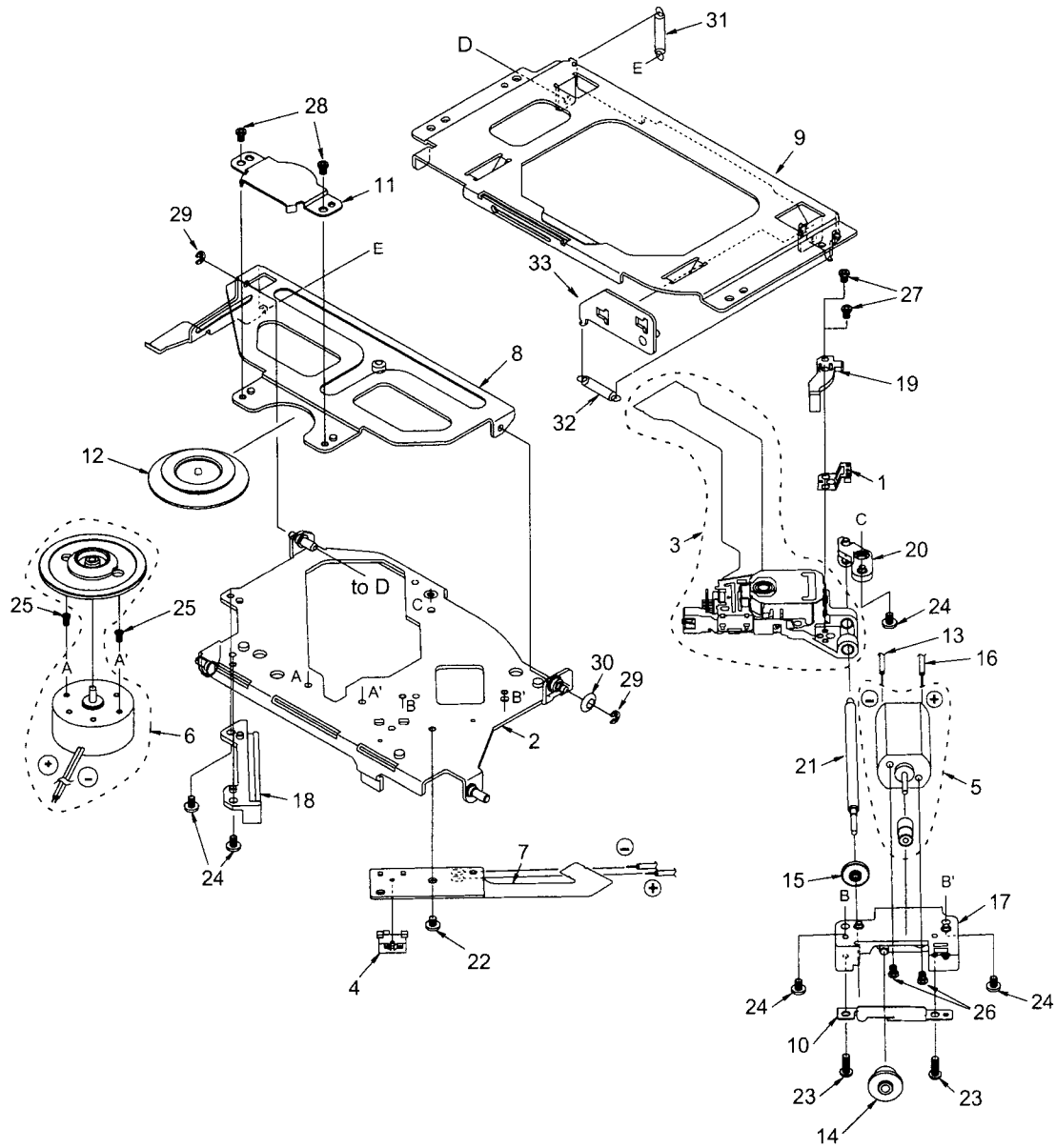
### Loading unit section



| NO. | PART NO.    | DESCRIPTION                         | Q'TY |
|-----|-------------|-------------------------------------|------|
| 1   | 966-0457-03 | L-CHASSIS ASSY                      | 1    |
| 2   | 966-0458-01 | LOCK-ARM-ASSY                       | 1    |
| 3   | 966-0464-00 | CLAMP-SE-ASSY                       | 1    |
| 4   | 802-4906-60 | WIRE (RED)                          | 1    |
| 5   | 966-0468-00 | SIDE PUSH-ASSY                      | 1    |
| 6   | 968-0122-01 | DRIVE UNIT                          | 1    |
| 7   | 039-1194-00 | LOADING UNIT PWB (A)                | 1    |
| 8   | 039-0924-01 | FLEXIBLE PWB<br>(WITHOUT COMPONENT) | 1    |
| 9   | 610-0369-00 | HOLDER-S-ROLLER                     | 1    |
| 10  | 620-0713-01 | CLAMP-SW-PLATE                      | 1    |
| 11  | 620-0715-02 | HOLDER SHIFT-PL                     | 1    |
| 12  | 620-0717-01 | MOTOR PLATE                         | 1    |
| 13  | 620-0719-00 | SWITCH PLATE                        | 1    |
| 14  | SMA-154-100 | MOTOR ASSY (LD)                     | 1    |
| 15  | 621-0382-00 | LO-HELICAL GEAR                     | 1    |
| 16  | 621-0383-00 | LOADING GEAR                        | 1    |
| 17  | 621-0384-00 | SWING GEAR                          | 1    |

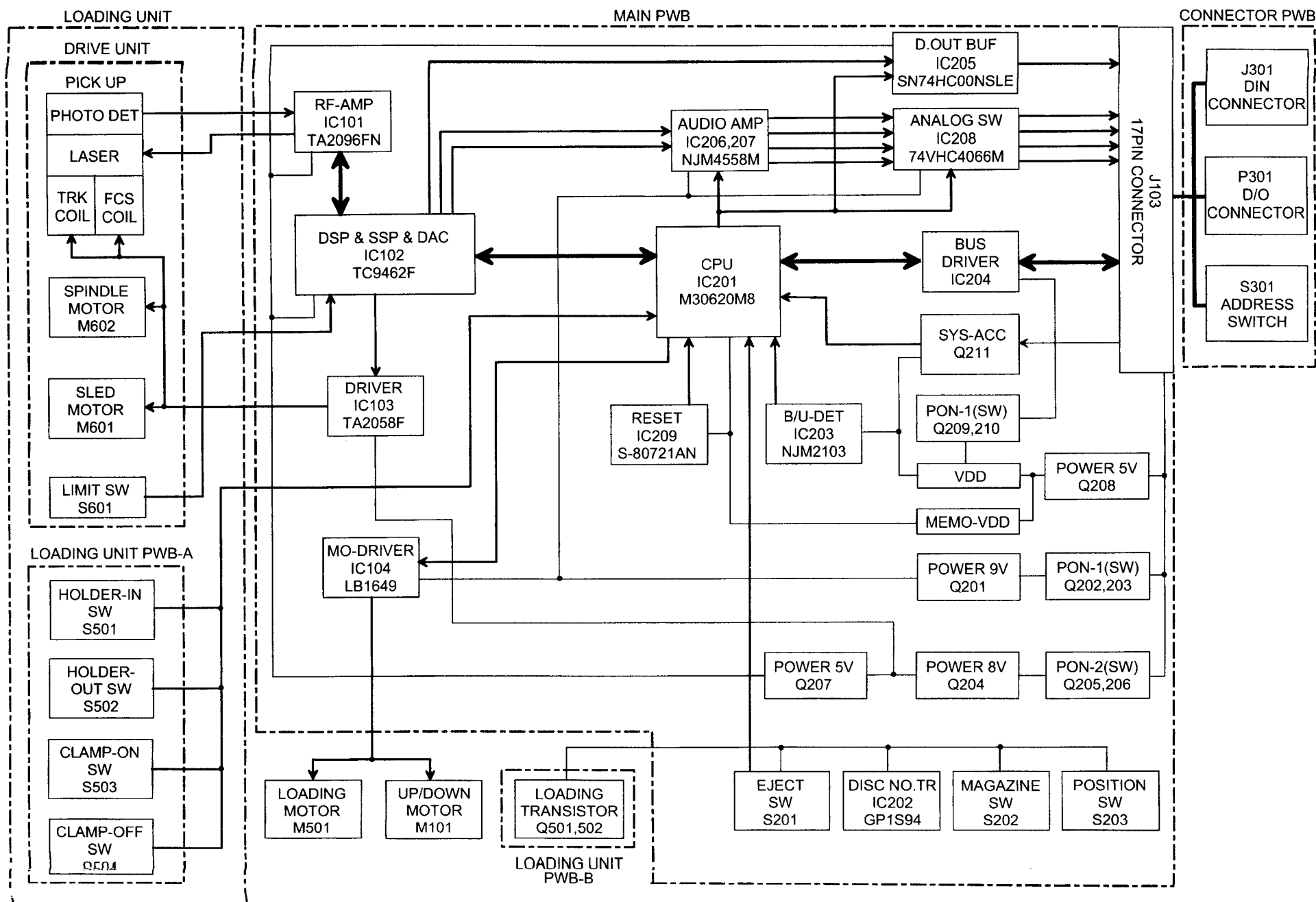
| NO. | PART NO.    | DESCRIPTION     | Q'TY |
|-----|-------------|-----------------|------|
| 18  | 621-0385-00 | PACK PINION     | 1    |
| 19  | 621-0386-01 | CAM GEAR        | 1    |
| 20  | 621-0387-01 | HOLDER-G-RAIL-L | 1    |
| 21  | 621-0388-01 | HOLDER-G-RAIL-R | 1    |
| 22  | 622-1330-00 | CAM-G-ROLLER    | 1    |
| 23  | 716-1468-00 | SCREW (M2X2.5)  | 8    |
| 24  | 716-1716-00 | SCREW (M2X3)    | 5    |
| 25  | 744-0039-00 | E-RING          | 1    |
| 26  | 745-0748-01 | WASHER          | 1    |
| 27  | 746-0761-00 | WASHER          | 3    |
| 28  | 746-0762-00 | WASHER          | 1    |
| 29  | 750-3240-00 | LOCK ARM SPRING | 1    |
| 30  | 750-3245-00 | GAP-L-SPRING    | 1    |
| 31  | 750-3246-00 | LOCK-L-SPRING   | 1    |
| 32  | 800-4906-60 | WIRE (BLK)      | 1    |
| 33  | 750-3259-00 | SIDE-P-SPRING   | 1    |
| 34  | 750-3261-00 | SWING SPRING    | 1    |

# Drive unit section



| NO. | PART NO.    | DESCRIPTION                           | Q'TY |
|-----|-------------|---------------------------------------|------|
| 1   | 966-0454-00 | SH-RACK-ASSY                          | 1    |
| 2   | 966-0456-04 | DRIVE-PL-ASSY                         | 1    |
| 3   | 969-0051-03 | PICK UP UNIT                          | 1    |
| 4   | 013-3953-01 | SWITCH                                | 1    |
| 5   | SMA-146-100 | MOTOR ASSY (SL)                       | 1    |
| 6   | SMA-156-200 | MOTOR ASSY (SP)                       | 1    |
| 7   | 039-0926-00 | DRIVE UNIT PWB<br>(WITHOUT COMPONENT) | 1    |
| 8   | 620-0721-01 | CLAMP ARM                             | 1    |
| 9   | 620-0722-00 | L-UPPER PLATE                         | 1    |
| 10  | 620-0723-01 | SCREW PUSH PLT                        | 1    |
| 11  | 620-0724-00 | CLAMPER PLATE                         | 1    |
| 12  | 621-0205-02 | CLAMPER RING                          | 1    |
| 13  | 801-4910-60 | WIRE (BRN)                            | 1    |
| 14  | 621-0255-02 | SECOND GEAR                           | 1    |
| 15  | 621-0256-01 | LS-GEAR                               | 1    |
| 16  | 803-4908-60 | WIRE (ORG)                            | 1    |
| 17  | 621-0389-01 | MOTOR HOLDER                          | 1    |

| NO. | PART NO.    | DESCRIPTION                          | Q'TY |
|-----|-------------|--------------------------------------|------|
| 18  | 621-0390-00 | PICK UP GUIDE                        | 1    |
| 19  | 621-0391-02 | SCREW-HOL-BASE                       | 1    |
| 20  | 621-0392-01 | LS-HOLDER-R                          | 1    |
| 21  | 624-0017-10 | LEAD SCREW                           | 1    |
| 22  | 716-0484-10 | SCREW (M2×2.5)                       | 1    |
| 23  | 716-0675-00 | SCREW (M2×5.5)                       | 2    |
| 24  | 716-1716-00 | SCREW (M2×3)                         | 5    |
| 25  | 716-1733-00 | SCREW (M1.7×2.3)                     | 2    |
| 26  | 732-2004-11 | LEAD SCREW                           | 2    |
| 27  | 739-1735-17 | PRECISION SCREW<br>( $\phi$ 1.7×3.5) | 2    |
| 28  | 739-2020-17 | PRECISION SCREW                      | 2    |
| 29  | 743-1500-20 | E-RING                               | 2    |
| 30  | 745-0789-01 | DRIVE WASHER                         | 1    |
| 31  | 750-3241-00 | CLAMP A SPRING                       | 1    |
| 32  | 750-3258-00 | PUSH P SPRING                        | 1    |
| 33  | 966-0467-00 | PUSH PLATE ASSY                      | 1    |



# ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts.

Main PWB section(B1)

One of those parts is used in the set.

| REF No. | PART No.    | DESCRIPTION     | REF No. | PART No.    | DESCRIPTION     | REF No. | PART No.    | DESCRIPTION         |
|---------|-------------|-----------------|---------|-------------|-----------------|---------|-------------|---------------------|
| C101    | 178-1032-78 | 0.01 $\mu$ F    | C225    | 176-2201-00 | 22pF CH         | Q205    | 125-0024-02 | MUN2111             |
| C102    | 183-3363-21 | 10V33 $\mu$ F   | C226    | 183-2263-31 | 16V22 $\mu$ F   | Q206    | 125-2005-01 | UN2211              |
| C103    | 178-1032-78 | 0.01 $\mu$ F    | C227    | 183-2263-31 | 16V22 $\mu$ F   | Q206    | 125-2031-02 | MUN2211             |
| C104    | 183-3363-21 | 10V33 $\mu$ F   | C228    | 183-2263-31 | 16V22 $\mu$ F   | Q206    | 125-2004-02 | RN1402              |
| C105    | 183-3363-21 | 10V33 $\mu$ F   | C229    | 183-2263-31 | 16V22 $\mu$ F   | Q207    | 103-1858-50 | 2SD1858Q.R          |
| C106    | 178-1032-78 | 0.01 $\mu$ F    | C230    | 183-1073-12 | 6.3V100 $\mu$ F | Q208    | 103-1858-50 | 2SD1858Q.R          |
| C107    | 178-1032-78 | 0.01 $\mu$ F    | C231    | 172-1041-11 | 0.1 $\mu$ F     | Q209    | 100-1048-50 | 2SA1048Y.GR         |
| C108    | 042-0426-31 | 6.3V100 $\mu$ F | C232    | 178-1032-78 | 0.01 $\mu$ F    | Q210    | 125-2005-01 | UN2211              |
| C109    | 176-1801-00 | 18pF CH         | C233    | 183-2263-31 | 16V22 $\mu$ F   | Q210    | 125-2031-02 | MUN2211             |
| C110    | 178-1042-78 | 0.1 $\mu$ F     | C234    | 183-2263-31 | 16V22 $\mu$ F   | Q210    | 125-2004-02 | RN1402              |
| C111    | 176-3901-00 | 39pF CH         | C235    | 183-2263-31 | 16V22 $\mu$ F   | Q211    | 100-1162-00 | 2SA1162             |
| C112    | 178-2242-78 | 0.22 $\mu$ F    | C236    | 183-2263-31 | 16V22 $\mu$ F   | Q212    | 125-2005-01 | UN2211              |
| C113    | 178-2242-78 | 0.22 $\mu$ F    | C237    | 172-1041-11 | 0.1 $\mu$ F     | Q212    | 125-2004-02 | RN1402              |
| C114    | 183-1073-12 | 6.3V100 $\mu$ F | C238    | 178-1032-78 | 0.01 $\mu$ F    | Q212    | 125-2031-02 | MUN2211             |
| C115    | 176-4701-00 | 47pF CH         | C239    | 178-1032-78 | 0.01 $\mu$ F    | Q213    | 125-2005-01 | UN2211              |
| C116    | 178-1532-78 | 0.015 $\mu$ F   | C240    | 183-1063-31 | 16V10 $\mu$ F   | Q213    | 125-2004-02 | RN1402              |
| C117    | 178-1032-78 | 0.01 $\mu$ F    | C241    | 183-1063-31 | 16V10 $\mu$ F   | Q213    | 125-2031-02 | MUN2211             |
| C118    | 178-2722-78 | 2700pF          | C242    | 183-1063-31 | 16V10 $\mu$ F   | Q214    | 125-0001-01 | UN2111              |
| C119    | 178-4722-78 | 4700pF          | C243    | 178-1022-78 | 1000pF          | Q214    | 125-0002-02 | RN2402              |
| C120    | 183-3363-21 | 10V33 $\mu$ F   | C245    | 178-4712-78 | 470pF           | Q214    | 125-0024-02 | MUN2111             |
| C121    | 178-1032-78 | 0.01 $\mu$ F    | D101    | 001-0330-00 | 1SS119          | Q215    | 103-1306-00 | 2SD1306             |
| C122    | 178-4712-78 | 470pF           | D102    | 001-0377-39 | MA4068H         | Q216    | 103-1306-00 | 2SD1306             |
| C123    | 178-4712-78 | 470pF           | D102    | 001-0376-40 | MTZJ7.5A        | R101    | 117-1011-10 | 1/10W 100 $\Omega$  |
| C124    | 178-4732-78 | 0.047 $\mu$ F   | D103    | 001-0377-33 | MA4056H         | R102    | 117-2201-10 | 1/10W 22 $\Omega$   |
| C125    | 178-4732-78 | 0.047 $\mu$ F   | D103    | 001-0376-34 | MTZJ6.2A        | R103    | 117-1841-10 | 1/10W 180k $\Omega$ |
| C126    | 178-4732-78 | 0.047 $\mu$ F   | D104    | 001-0563-00 | GL380           | R104    | 117-1841-10 | 1/10W 180k $\Omega$ |
| C127    | 178-4732-78 | 0.047 $\mu$ F   | D105    | 001-0563-00 | GL380           | R105    | 117-8231-10 | 1/10W 82k $\Omega$  |
| C128    | 178-1032-78 | 0.01 $\mu$ F    | D202    | 001-0377-47 | MA4091M         | R106    | 117-1031-10 | 1/10W 10k $\Omega$  |
| C129    | 178-1032-78 | 0.01 $\mu$ F    | D202    | 001-0376-48 | MTZJ9.1C        | R107    | 117-2221-10 | 1/10W 2.2k $\Omega$ |
| C131    | 178-4722-78 | 4700pF          | D203    | 001-0377-45 | MA4082H         | R108    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C134    | 178-4722-78 | 4700pF          | D203    | 001-0376-46 | MTZJ9.1A        | R109    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C135    | 176-1501-00 | 15pF CH         | D204    | 001-0377-31 | MA4056L         | R110    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C136    | 176-1501-00 | 15pF CH         | D204    | 001-0376-31 | MTZJ5.6A        | R111    | 117-1031-10 | 1/10W 10k $\Omega$  |
| C138    | 178-1032-78 | 0.01 $\mu$ F    | D205    | 001-0330-00 | 1SS119          | R112    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C139    | 176-1011-00 | 100pF CH        | D206    | 001-0503-35 | HZS6C2L         | R113    | 117-4741-10 | 1/10W 470k $\Omega$ |
| C141    | 183-3363-21 | 10V33 $\mu$ F   | D207    | 001-0466-00 | S5688B          | R114    | 117-3331-10 | 1/10W 33k $\Omega$  |
| C142    | 178-1032-78 | 0.01 $\mu$ F    | D208    | 001-0466-00 | S5688B          | R115    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C143    | 183-3363-21 | 10V33 $\mu$ F   | D209    | 001-0516-00 | MA111           | R116    | 117-1031-10 | 1/10W 10k $\Omega$  |
| C144    | 178-1032-78 | 0.01 $\mu$ F    | D212    | 001-0330-00 | 1SS119          | R117    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C145    | 176-8201-00 | 82pF CH         | D213    | 001-0330-00 | 1SS119          | R118    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C146    | 176-6801-00 | 68pF CH         | D214    | 001-0330-00 | 1SS119          | R119    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C147    | 178-1042-78 | 0.1 $\mu$ F     | D215    | 001-0330-00 | 1SS119          | R120    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C148    | 178-1042-78 | 0.1 $\mu$ F     | IC101   | 051-5704-00 | TA2096FN        | R121    | 117-1021-10 | 1/10W 1k $\Omega$   |
| C149    | 178-1042-78 | 0.1 $\mu$ F     | IC102   | 051-6342-00 | TC9462F         | R122    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C150    | 178-1042-78 | 0.1 $\mu$ F     | IC103   | 051-6026-08 | TA2058F         | R123    | 117-4711-10 | 1/10W 470 $\Omega$  |
| C151    | 178-1032-78 | 0.01 $\mu$ F    | IC104   | 051-1408-00 | LB1649          | R124    | 117-1811-10 | 1/10W 180 $\Omega$  |
| C152    | 178-1032-78 | 0.01 $\mu$ F    | IC201   | 052-5031-02 | M30620M8-370FP  | R125    | 117-3321-10 | 1/10W 3.3k $\Omega$ |
| C201    | 184-4773-31 | 16V470 $\mu$ F  | IC202   | 051-5806-00 | GP1S94          | R126    | 117-8211-10 | 1/10W 820 $\Omega$  |
| C202    | 173-1021-11 | 1000pF J        | IC203   | 051-0869-55 | NJM2103M        | R201    | 111-2711-91 | 1/4WS 270 $\Omega$  |
| C203    | 178-1032-78 | 0.01 $\mu$ F    | IC204   | 051-6600-38 | CA0008AM        | R202    | 111-2211-81 | 1/2WS 220 $\Omega$  |
| C204    | 042-0452-01 | 10V220 $\mu$ F  | IC205   | 051-0857-05 | TC74HC00AF      | R203    | 111-1001-81 | 1/2WS 10 $\Omega$   |
| C205    | 178-1032-78 | 0.01 $\mu$ F    | IC205   | 051-7216-08 | SN74HC00ANSLE   | R204    | 117-1211-10 | 1/10W 120 $\Omega$  |
| C206    | 042-0452-01 | 10V220 $\mu$ F  | IC206   | 051-0350-55 | NJM4558M        | R205    | 117-1531-10 | 1/10W 15k $\Omega$  |
| C207    | 178-1032-78 | 0.01 $\mu$ F    | IC207   | 051-0350-55 | NJM4558M        | R206    | 117-1021-10 | 1/10W 1k $\Omega$   |
| C208    | 183-1073-12 | 6.3V100 $\mu$ F | IC208   | 051-7232-08 | 74VHC4066M      | R207    | 117-2231-10 | 1/10W 22k $\Omega$  |
| C209    | 183-1073-12 | 6.3V100 $\mu$ F | IC209   | 051-5407-08 | S-80721AN-DJ    | R208    | 117-4711-10 | 1/10W 470 $\Omega$  |
| C210    | 183-1063-31 | 16V10 $\mu$ F   | J101    | 074-1138-13 | 13P             | R209    | 117-1031-10 | 1/10W 10k $\Omega$  |
| C211    | 178-1032-78 | 0.01 $\mu$ F    | J102    | 074-1138-17 | 17P             | R210    | 117-1031-10 | 1/10W 10k $\Omega$  |
| C212    | 042-0576-00 | 5.5V0.1 $\mu$ F | J103    | 074-1158-17 | 17P             | R211    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C213    | 178-1032-78 | 0.01 $\mu$ F    | L101    | 010-2230-72 | 10 $\mu$ H      | R212    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C214    | 178-1032-78 | 0.01 $\mu$ F    | Q101    | 101-1237-50 | 2SB1237QR       | R213    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C215    | 178-2242-78 | 0.22 $\mu$ F    | Q201    | 103-1683-50 | 2SD1683ST       | R214    | 117-2711-10 | 1/10W 270 $\Omega$  |
| C216    | 178-1032-78 | 0.01 $\mu$ F    | Q202    | 125-0001-01 | UN2111          | R215    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C217    | 183-1063-31 | 16V10 $\mu$ F   | Q202    | 125-0002-02 | RN2402          | R216    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C218    | 178-4732-78 | 0.047 $\mu$ F   | Q202    | 125-0024-02 | MUN2111         | R217    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C219    | 178-1022-78 | 1000pF          | Q203    | 125-2005-01 | UN2211          | R218    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C220    | 183-1063-31 | 16V10 $\mu$ F   | Q203    | 125-2004-02 | RN1402          | R219    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C221    | 183-1063-31 | 16V10 $\mu$ F   | Q203    | 125-2031-02 | MUN2211         | R220    | 117-4731-10 | 1/10W 47k $\Omega$  |
| C222    | 176-1211-00 | 120pF CH        | Q204    | 103-1683-50 | 2SD1683ST       | R221    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C223    | 176-1211-00 | 120pF CH        | Q205    | 125-0001-01 | UN2111          | R222    | 117-1041-10 | 1/10W 100k $\Omega$ |
| C224    | 176-2201-00 | 22pF CH         | Q205    | 125-0002-02 | RN2402          | R223    | 117-1021-10 | 1/10W 1k $\Omega$   |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R224    | 117-1021-10 | 1/10W 1kΩ   |
| R225    | 117-1241-10 | 1/10W 120kΩ |
| R226    | 117-1041-10 | 1/10W 100kΩ |
| R227    | 117-1041-10 | 1/10W 100kΩ |
| R228    | 117-3321-10 | 1/10W 3.3kΩ |
| R229    | 117-4731-10 | 1/10W 47kΩ  |
| R230    | 117-2211-10 | 1/10W 220Ω  |
| R231    | 117-1231-10 | 1/10W 12kΩ  |
| R232    | 117-1231-10 | 1/10W 12kΩ  |
| R233    | 117-1531-10 | 1/10W 15kΩ  |
| R234    | 117-1531-10 | 1/10W 15kΩ  |
| R235    | 117-1031-10 | 1/10W 10kΩ  |
| R236    | 117-1031-10 | 1/10W 10kΩ  |
| R237    | 117-1031-10 | 1/10W 10kΩ  |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R238    | 117-1031-10 | 1/10W 10kΩ  |
| R239    | 117-8221-10 | 1/10W 8.2kΩ |
| R240    | 117-1031-10 | 1/10W 10kΩ  |
| R241    | 117-1011-10 | 1/10W 100Ω  |
| R242    | 117-1011-10 | 1/10W 100Ω  |
| R243    | 117-1011-10 | 1/10W 100Ω  |
| R244    | 117-1011-10 | 1/10W 100Ω  |
| R245    | 117-4731-10 | 1/10W 47kΩ  |
| R246    | 117-4731-10 | 1/10W 47kΩ  |
| R247    | 117-1011-10 | 1/10W 100Ω  |
| R248    | 117-1011-10 | 1/10W 100Ω  |
| R249    | 117-1041-10 | 1/10W 100kΩ |
| R250    | 117-1041-10 | 1/10W 100kΩ |
| R251    | 117-1041-10 | 1/10W 100kΩ |

| REF No. | PART No.    | DESCRIPTION     |
|---------|-------------|-----------------|
| R252    | 117-1041-10 | 1/10W 100kΩ     |
| R253    | 117-4731-10 | 1/10W 47kΩ      |
| R254    | 117-1031-10 | 1/10W 10kΩ      |
| R255    | 117-1031-10 | 1/10W 10kΩ      |
| R256    | 117-5621-10 | 1/10W 5.6kΩ     |
| R257    | 117-1031-10 | 1/10W 10kΩ      |
| R258    | 117-1041-10 | 1/10W 100kΩ     |
| R259    | 117-1021-10 | 1/10W 1kΩ       |
| S201    | 013-6100-10 | SKHLLD          |
| S202    | 013-7204-00 | SPPB64          |
| S203    | 013-3989-00 | SPPB63          |
| T201    | 009-0625-02 | CHOKE           |
| X101    | 061-3038-00 | HC49 16.9344MHz |
| X201    | 060-1505-50 | 10MHz           |

#### Connector PWB section(B2)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| J301    | 074-1194-00 | Ce-NET      |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| P301    | 075-0305-00 | D-OUT       |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| S301    | 013-8101-00 | S-2051      |

#### Loading unit PWB section(B3)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| S501    | 013-3953-01 | SPPB32      |
| S502    | 013-3953-01 | SPPB32      |

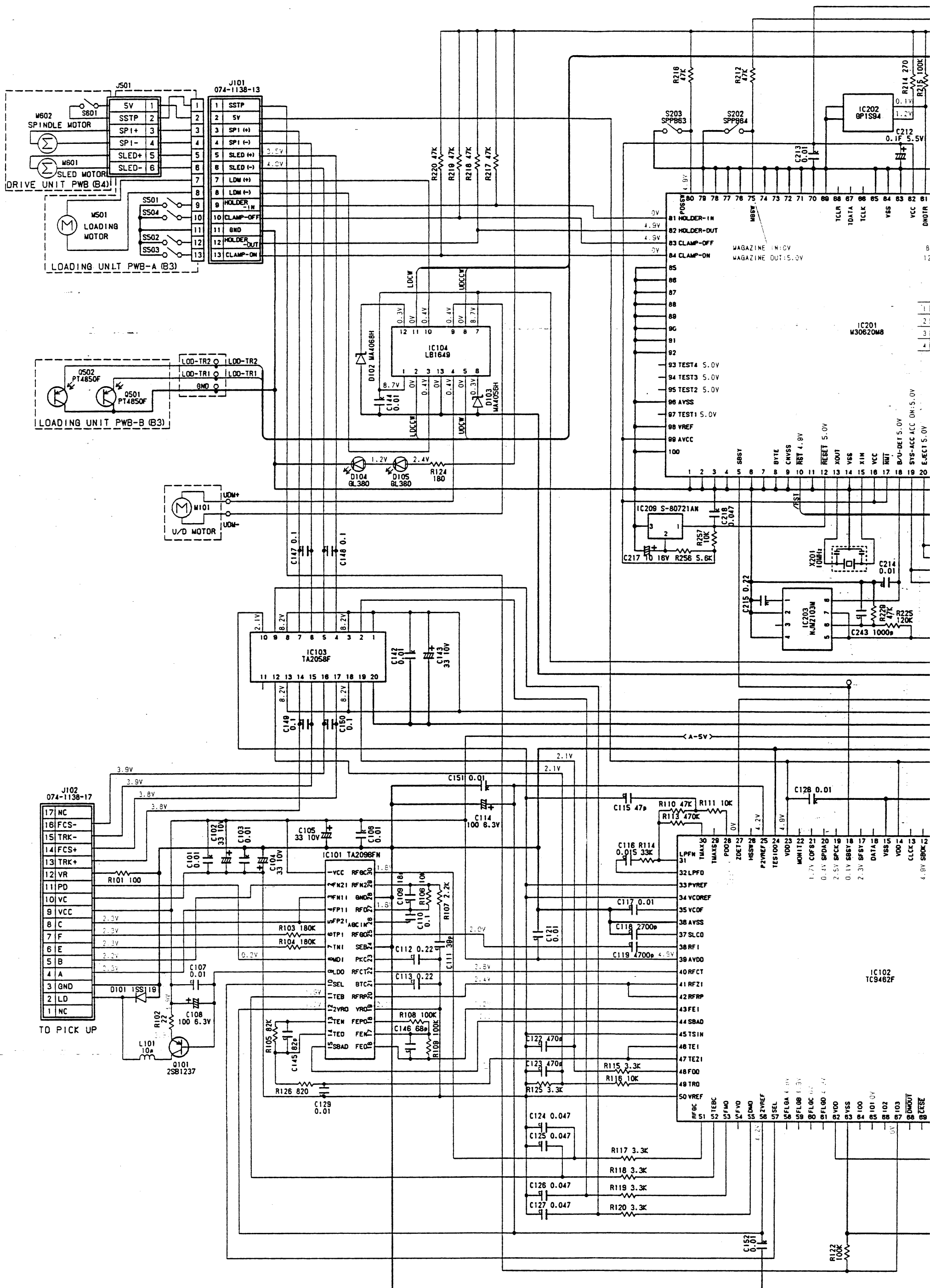
| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| S503    | 013-3953-01 | SPPB32      |
| S504    | 013-3953-01 | SPPB32      |

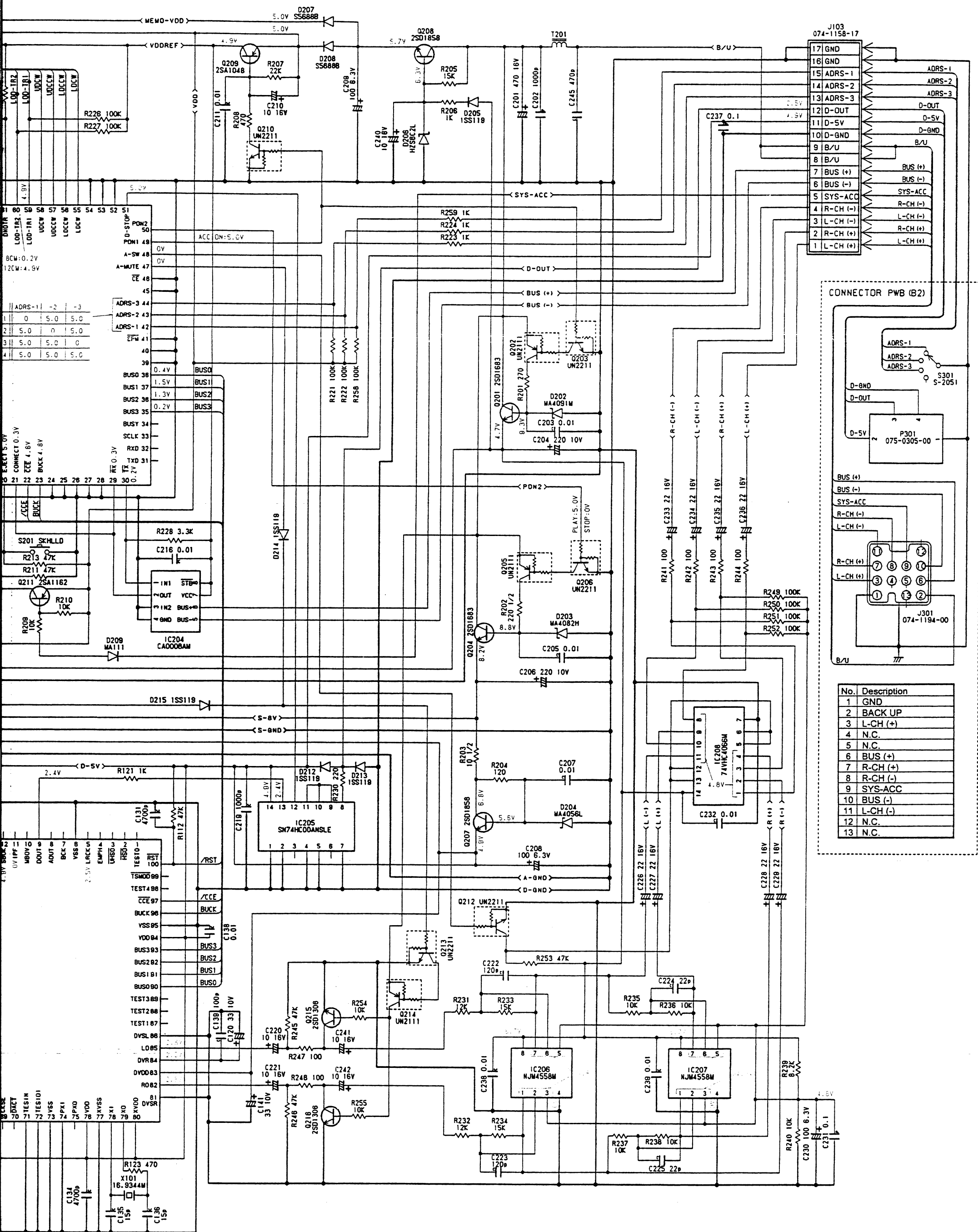
| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| Q501    | 060-0252-01 | PT4850F     |
| Q502    | 060-0252-01 | PT4850F     |

#### Drive unit PWB section(B4)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| S601    | 013-3953-01 | SPPB32      |

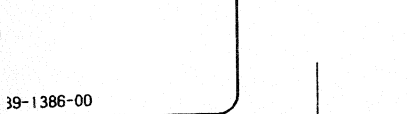
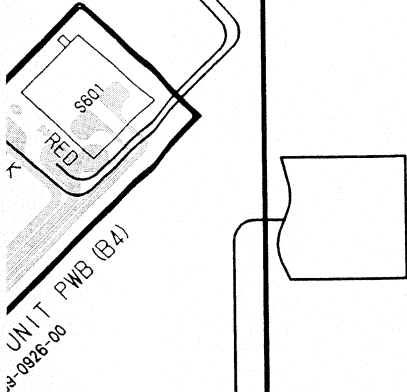
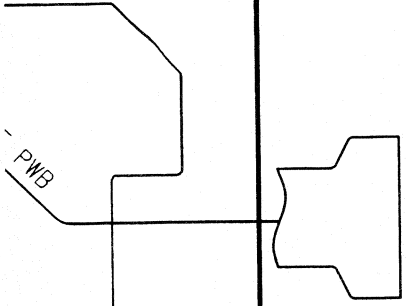
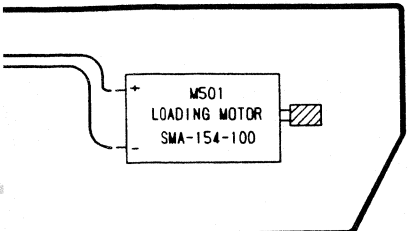
# ■CIRCUIT DIAGRAM







CD 655Tz  
RD 655Tz



39-1386-00

IC

0

103 101

209

206

201 202 207

203

204

208

202

205

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501

101

215 216

211

210

210

214

207

208 213 212

208 205 206 203 202

104

204 201

502 501